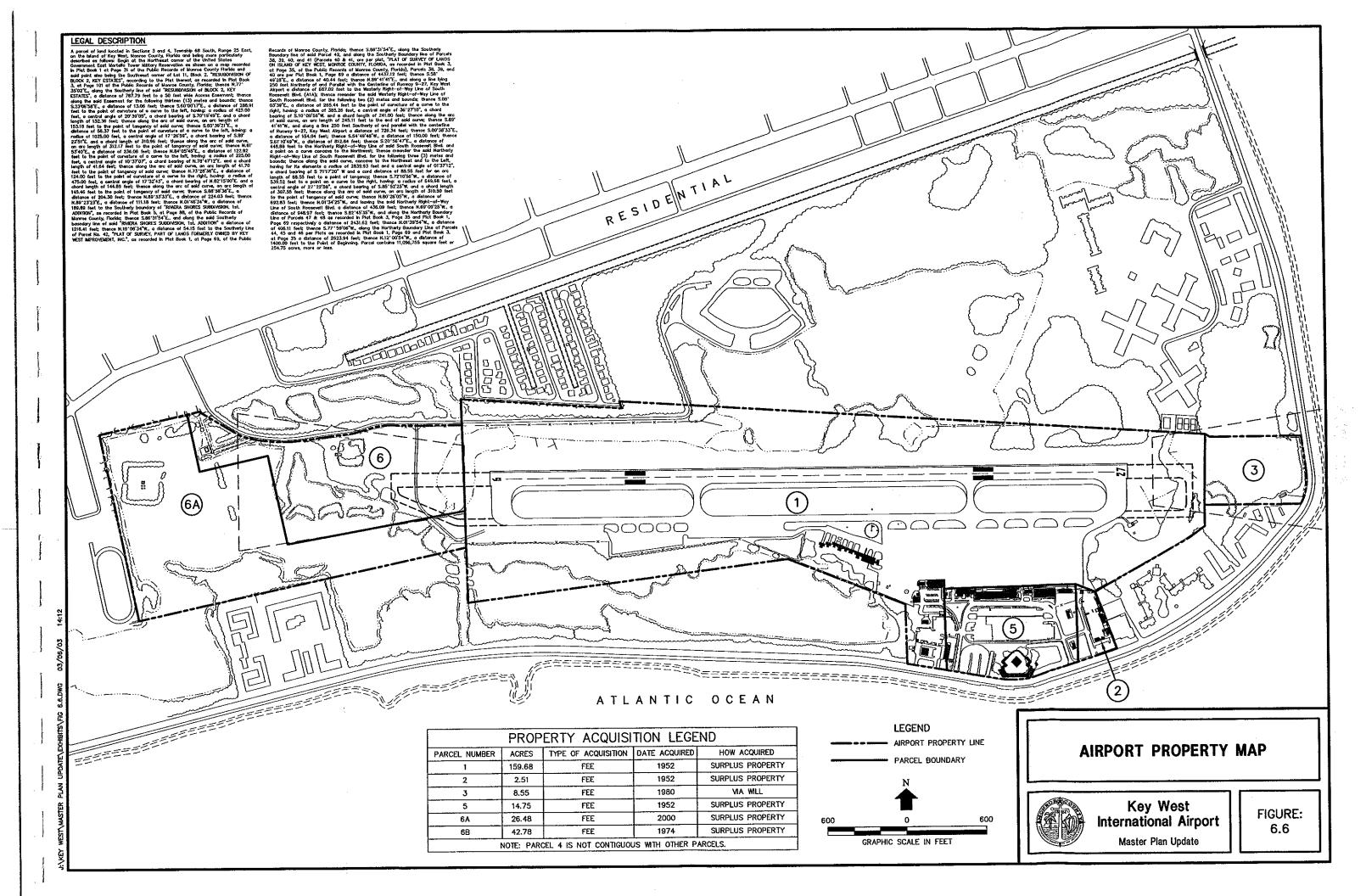
6.6 AIRPORT PROPERTY MAP

The airport property map, depicted in Figure 6.6, indicates how and when the various parcels that comprise the airport were acquired. The first transfer of airport property to Monroe County occurred in 1952. Additional parcels were acquired in 1974, 1990, and 2000. No further land acquisition is proposed as part of the master plan update.



SECTION 7
PROJECT IDENTIFICATION,
STAGING AND COST ESTIMATES

7.1 INTRODUCTION

This section identifies the capital improvement projects that comprise the development plans presented in the preceding section. Projects were identified on the basis of safety, capacity shortfalls, as well as airport management and tenant priorities. In certain cases, alternate projects have been identified as a way of meeting capacity shortfalls. The ultimate implementation of projects will be decided on the basis of funding availability, environmental approvals, and management and tenant priorities.

This section provides conceptual cost estimates for all projects in 2003 dollars. Cost estimates are divided into construction costs and program costs. Construction costs include all physical items and the labor associated with their installation. Unit prices used to develop the construction costs account for the higher prices typically incurred in the Key West market. Program costs include change order contingency, project management, construction management, design services during construction, and design fees. Details of the cost estimates are provided in Appendix F.

Phasing of projects was accomplished on the basis of existing and projected demand for facilities, anticipated timelines for environmental approvals, consultation with airport management, and tenant priorities. Although projects have been assigned to short-term and intermediate-term periods, project phasing can be altered to meet funding limitations. Phasing for this master plan has been established as follows: short-term (2003 through 2007) and intermediate-term (2008 through 2012) and long-term (2013 through 2021). None of the proposed projects are scheduled for the long-term.

7.2 SHORT-TERM PROJECTS

Project priorities during the short-term period include continuing environmental studies to support the construction of a standard runway safety area and runway extension, the construction of terminal area projects, and the continuation of the ongoing sound insulation program. These projects are described below and are illustrated in Figure 7.1. Estimated costs for these projects are shown in Table 7.1.

With respect to terminal area projects, it should be noted that there are two options. The first option is to construct a new passenger terminal. The second option is to construct a modest, short-term terminal expansion that would provide some level of relief to the passenger congestion that occurs in the existing terminal.

TABLE 7.1 SHORT-TERM (2003 TO 2007) PROJECT COST ESTIMATES Key West International Airport Master Plan Update

a Phrojest		and a Deligible for the same		
Reference		Constitution	Estimatei	
Number for	end seamen of the conduction o		Programments	Fallogicosta a
ad igure 7.1	Program FIG	6 (2003(D)ollars) :	(2003 Dollars)	* (2003 Dollars)
ļ <u>. 1</u>	Prepare EIS	NA	\$1,000,000	\$1,000,000
2	Aircraft Wash Rack ¹	\$150,000	\$40,000	\$190,000
3	GA Hangar Project ¹	\$1,530,000	\$380,000	\$1,910,000
4	FBO Parking ¹	\$160,000	\$40,000	\$200,000
5	Signage Program	\$110,000	\$40,000	\$150,000
6	Terminal Study	NA	\$60,000	\$60,000
7	Terminal Expansion	\$4,290,000	\$1,070,000	\$5,360,000
8	FBO Access Road	\$310,000	\$70,000	\$380,000
9	New Terminal	\$23,810,000	\$5,950,000	\$29,760,000
10	NIP - Phase 3	\$2,500,000	\$1,000,000	\$3,500,000
11	NIP - Phase 4	\$2,500,000	\$1,000,000	\$3,500,000
12	NIP – Phase 5	\$2,500,000	\$1,000,000	\$3,500,000
13	NIP – Phase 6	\$2,500,000	\$1,000,000	\$3,500,000
Short-term C	osts Assuming derininal Ex	panisioni e	我们在我们的	
	Cost to Monroe County	\$14,400,000	\$6,110,000	\$20,510,000
	Cost to Third Party	\$1,840,000	\$460,000	\$2,300,000
Short-termiC	osis Assuming New Passeng	ergieninales esse		
	Cost to Monroe County	\$33,650,000	\$10,512,900	\$44,162,900
	Cost to Third Party	\$1,840,000	\$460,000	\$2,300,000

Source: URS Corporation, 2003.

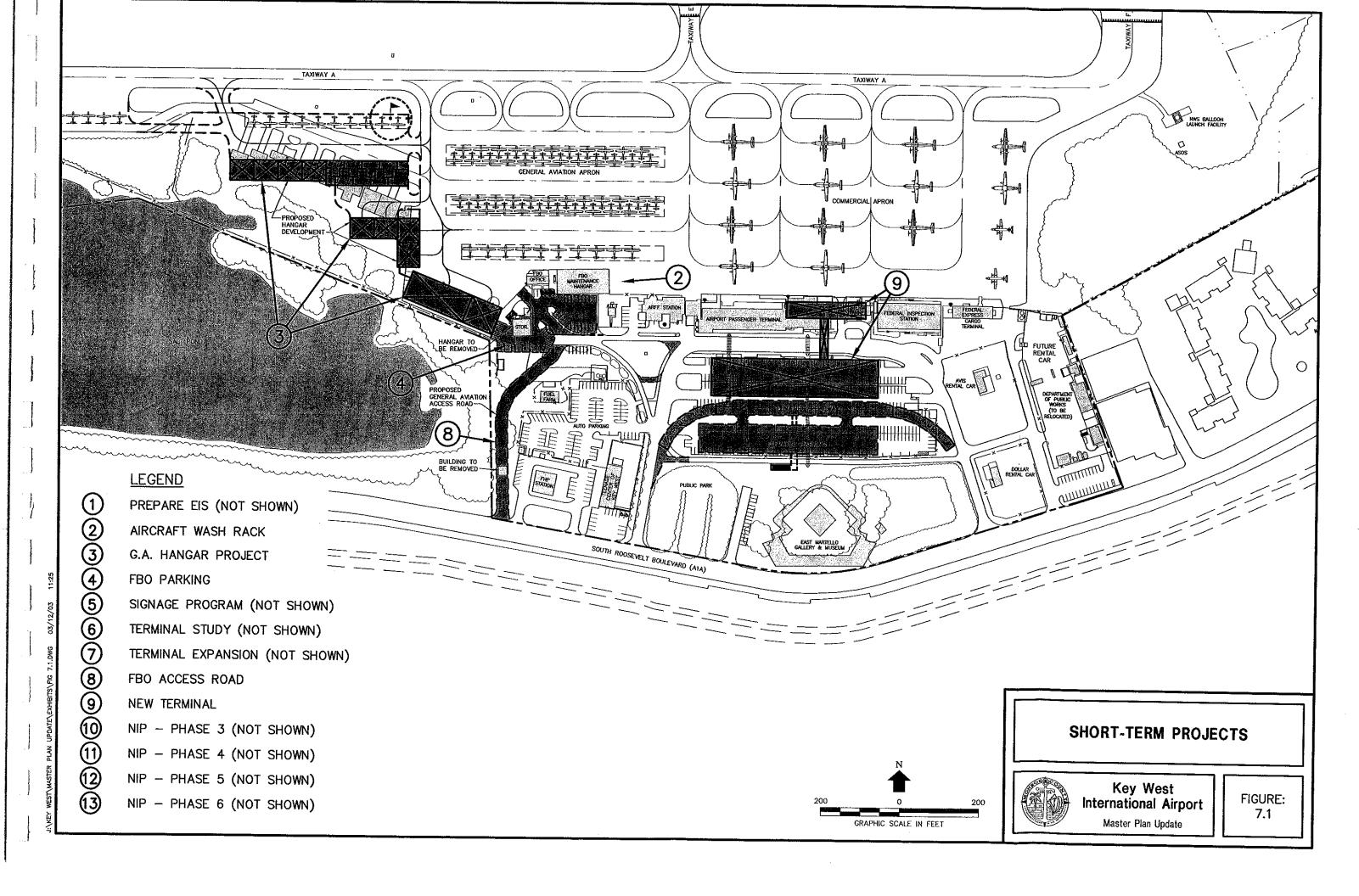
Notes: ¹ These projects to be financed by a combination of third party funding.

7.2.1 Prepare Environmental Impact Statement (EIS)

As noted in Section 6, a feasibility study is being conducted to examine issues related to certain environmental impacts associated with the proposed construction of a standard runway safety area and runway extensions. Environmental issues being examined include impacts to wetlands, mangroves and salt ponds, as well as historic resources. On the basis of the information obtained from the feasibility study, the FAA will decide whether safety and financial considerations justify proceeding with an EIS for these projects. If a determination is made to proceed with an EIS, this project will consist of preparing such a study.

7.2.2 CONSTRUCT AIRCRAFT WASH RACK

The airport does not currently have any facility for the collection of wastewater from washing of aircraft. This project consists of the construction of a designated area east of the FBO hangar for



washing aircraft. The facility would consist of a properly marked, graded and paved area that would collect wastewater resulting from washing of aircraft. The facility would provide water supply and would also contain an oil/water separator for proper disposal of oils. This project would be funded by a combination of third party sources.

7.2.3 GENERAL AVIATION HANGAR PROJECT

This project consists of the demolition of 10 existing aircraft hangars and the construction of 20 new hangars. The new hangars will consist of 12 individual hangars and 8 nested T-hangars. This project also includes the construction of a paved apron that will accommodate approximately 10 aircraft tie-downs. The construction of this apron will require the relocation of a lighted wind cone and segmented circle to a site on the north side of the runway. This project would be funded by a combination of third party sources.

7.2.4 FBO PARKING REHABILITATION AND EXPANSION

This project consists of the realignment of the entrance roadway to the general aviation aircraft apron, the removal of one hangar and two storage buildings, and the rehabilitation and expansion of the FBO automobile parking lot. This project will enable the general aviation hangar project to construct hangars adjacent to the existing entrance road. This project would be funded by a combination of third party sources.

7.2.5 CONDUCT ROADWAY SIGNAGE PLAN AND PROGRAM

Roadway signage at the airport is currently a confusing mixture of styles and colors. Furthermore, there is no apparent hierarchy to the signs and the placement of many signs is confusing. This project consists of the preparation of a comprehensive signage plan that would address the issues of hierarchy, style, color, and placement. Following the preparation and approval of a signage plan, the signs specified by the plan would be installed.

7.2.6 TERMINAL AREA STUDY / PRELIMINARY DESIGN

This project consists of further analysis and definition of new passenger terminal facilities in order to finalize a concept that could proceed to design. The study will examine the potential to modify certain terminal elements, and/or the timing of elements, recommended by the preferred alternative in order to meet funding constraints.

7.2.7 SHORT-TERM PASSENGER TERMINAL EXPANSION

This project consists of the construction of a terminal expansion of approximately 8,000 square feet between the existing passenger terminal and the FIS building. This project would include

the demolition of the existing terminal annex. This project would only be pursued if sufficient funding could not be secured for the construction of a new passenger terminal.

7.2.8 NEW FBO ACCESS ROAD

This project consists of the construction of a new FBO access road. The new road would be located west of the Florida State Highway Patrol building and would provide a connection from South Roosevelt Boulevard to the fuel farm, general aviation facilities, the air traffic control tower, and the Aircraft Rescue and Fire Fighting Station. This project is required only if a new passenger terminal is constructed.

7.2.9 NEW PASSENGER TERMINAL

This project consists of the construction of an approximately 50,000-square-foot terminal with an elevated access road and elevated parking structure in the area currently occupied by automobile parking. A concourse facility would extend over Faraldo Circle and would extend to the current edge of aircraft parking apron. The existing passenger terminal would remain in operation until such time the new terminal became operational and would then be demolished.

7.2.10 Noise Insulation Program – Phase 3

This project consists of installing sound insulation in 53 residences in the Riviera Shores subdivision along Venetian Drive, Jamaica Drive, and Bahama Drive. These residences fall within the 65 DNL noise contour as identified by the airport's Part 150 Study. Phase 1 of the noise insulation program has been completed and Phase 2 is scheduled for completion in 2003.

7.2.11 Noise Insulation Program - Phase 4

This project consists of installing sound insulation in 53 residences in the vicinity of 4th Street and 5th Street between Flagler Avenue and Juanita Lane. These residences are located within the airport's 65 DNL noise contour and have been identified as being eligible for sound insulation as part of the airport's Part 150 Study.

7.2.12 NOISE INSULATION PROGRAM - PHASE 5

This project consists of installing sound insulation in 65 residences in the vicinity of 2nd Street and 3rd Street near Flagler Avenue. These residences are located within the airport's 65 DNL noise contour and have been identified as being eligible for sound insulation as part of the airport's Part 150 Study.

7.2.13 Noise Insulation Program - Phase 6

This project consists of installing sound insulation in 55 residences in the vicinity of 11th Street and Riviera Drive. These residences are located within the airport's 65 DNL noise contour and have been identified as being eligible for sound insulation as part of the airport's Part 150 Study.

7.3 INTERMEDIATE-TERM PROJECTS

Projects included in the intermediate-term focus on implementation of airfield improvements. It is anticipated that the EIS and associated environmental approvals would take a number of years to obtain. Therefore, assuming that the necessary environmental approvals are obtained, the construction of airfield projects would likely occur in the intermediate-term period. These projects are described below and are illustrated in Figure 7.2. Estimated costs for these projects are shown in Table 7.2.

TABLE 7.2
INTERMEDIATE-TERM (2008 TO 2012)
PROJECT COST ESTIMATES
Key West International Airport
Master Plan Update

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1	Runway Safety Area	\$7,920,000	\$1,980,000	\$9,900,000
2	Runway Extension	\$2,600,000	\$650,000	\$3,250,000
3	NIP- Phase 7	\$2,500,000	\$1,000,000	\$3,500,000
Intermediate-T	erm Cost Totals	\$13,020,000	\$3,630,000	\$16,650,000

Source: URS Corporation, 2003.

7.3.1 CONSTRUCT RUNWAY SAFETY AREA

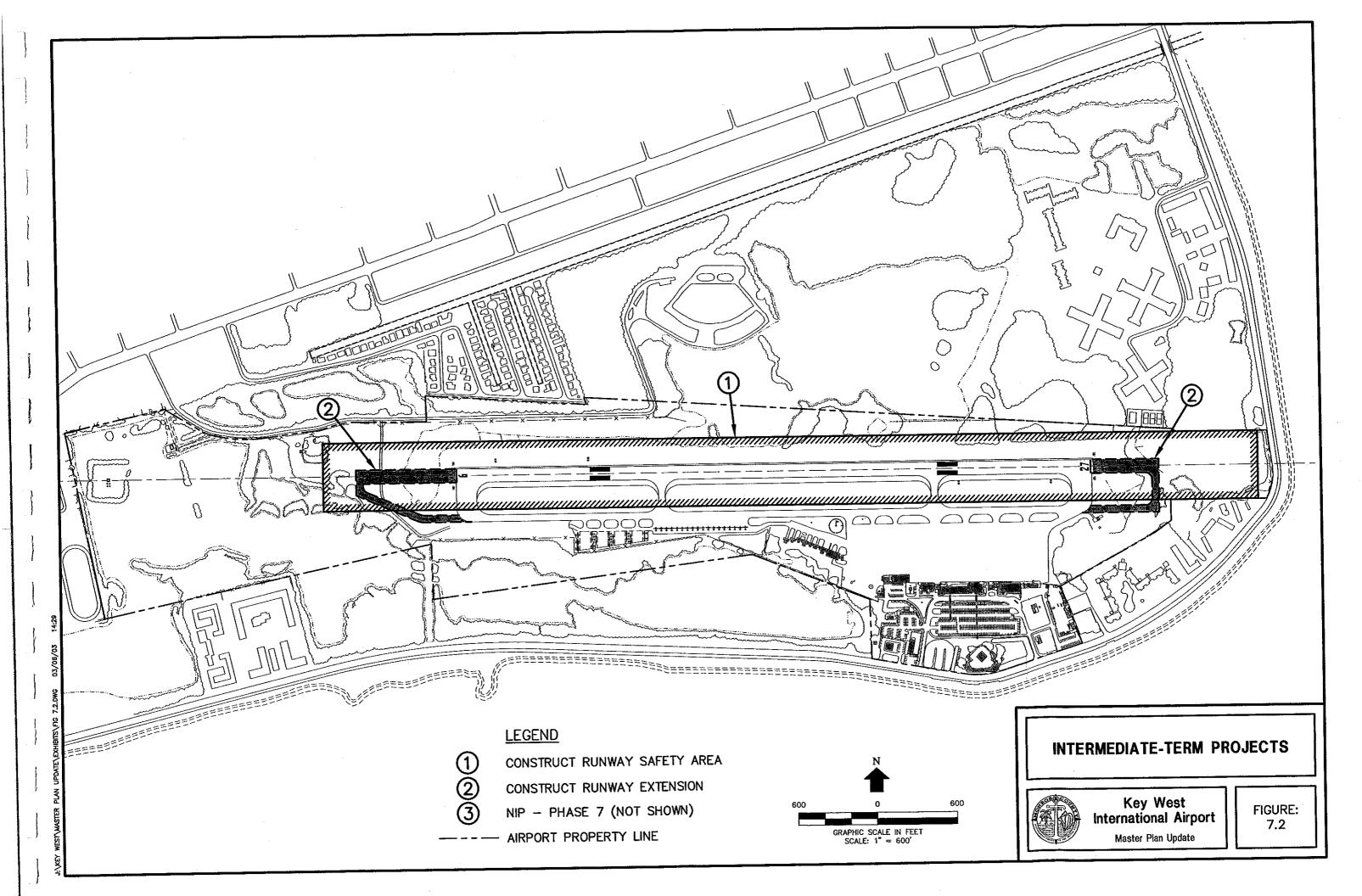
This project entails the construction of a safety area around Runway 9/27 that meets FAA criteria for runways serving C-III aircraft such as the CRJ-700. The project would consist of filling ponds, removing vegetation, and grading land around the runway to meet the FAA's clearance and grading requirements. The proposed runway safety area would have a width of 500 feet and a length that extends 1,000 feet past the Runway 9 threshold and 1,250 feet past the Runway 27 threshold.

7.3.2 CONSTRUCT RUNWAY EXTENSION

This project consists of extending the runway by 750 feet on its west-end and by 500 feet on its east-end. The project includes paving for the runway extensions, associated taxiways and blast pads, lighting, signage and marking.

7.3.3 Noise Insulation Program – Phase 7

This project consists of installing sound insulation in 42 residences in the vicinity of Linda Avenue and Government Road. These residences were identified as being eligible for sound insulation as part of the airport's Part 150 Study.



APPENDIX A WEIGHTED HOURLY CAPACITY

The methodology described in FAA Advisory Circular 150/5060-5 "Airport Capacity and Delay" was used to calculate the weighted hourly capacity and Annual Service Volume (ASV) of the airfield at EYW.

The weighted hourly capacity was derived by utilizing the following equation:

Cw=
$$(P_1*C_1*W_1)+(P_2*C_2*W_2)$$

 $(P_1*W_1)+(P_2*W_2)$

Cw= Weighted hourly capacity

P = Runway use configuration in percent (VFR and IFR)

C = Unadjusted hourly capacity

W = ASV weighting factor

Cw=
$$\frac{(.992*65*1)+(.008*51*8)}{(.992*1)+(.008*8)}$$
Cw=
$$\frac{64.48+3.26}{.992+.064}$$
Cw=
$$\frac{67.74}{1.056}$$
Cw=
$$64.15 (64)$$

Once the weighted hourly capacity is determined, the following equation is used to derive the airfield's ASV:

Cw = Weighted hourly capacity

- D = Daily demand ratio (annual demand divided by average daily demand during peak month)
- H = Hourly demand ratio (average daily demand divided by average peak hour demand during peak month)

$$D = \frac{92.591}{295} = 314$$

$$H=$$
 $\frac{294}{36}$ = 8.25

APPENDIX B RUNWAY LENGTH ANALYSIS

TAKEOFF RUNWAY LENGTH ADJUSTMENT

(Given takeoff distance at sea level, mean max temperature, elevation & difference in Hi / Lo pts)

E = Elevation Altitude Correction L = Takeoff distance @ sea level (7% per 1;000' above sea level) L1 = Takeoff runway length corrected for altitude L1 = (07 * E / 1000) * L + LTemperature Correction (0:5% per degree above stnd temp in hottest month) (Stnd Temp adjusted to Sea Level) T1 = Adjusted Stnd Temp T = Mean Max High Temperature L2 = Takeoff RW length corrected for altitude & temperature T1 = 59 - (3:566 * E / 1000) L2 = (.005*(TUT1)) *L1 + L1 Effective Gradient Correction G = Difference between Hi / Lo point in feet (10' for each 1' difference between L3 = RW length corrected for alititude, temperature & gradient Hi/Lo Pts.) L3 ≡ G * 10 + L2

Aircraft Citation X

Takeoff Runway Length at Sea Level and 59 Degrees Fahrenheit	0.00000		ion mil
Enter the takeoff distance at sea level in feet from Table 1.	L=:(L	5140	
Altitude	建原的		
2. Enter Airport Altitude in feet above sea level	E= 4		51 - 74 - 75 - 410 - 419 658 - 5
	jude [5141	100
Temperature 3. Enter Mean Max Daily Temp in degrees F	$_{0}\in T^{\lfloor n/2\rfloor}$	**************************************	adenta Tipologia
	TI= [58.99	AGEGIOSE 11 CON
September 1	(Bard i2 = 1 1	A 1910 A 15913	993
Gradient Adjustment	rijiga Kari - Januariji	i pagajeteko. Kabasa 12. mangaji	
4. Enter Maximum Difference in RW Elevation in feet	god C r verside like stolk de C	10 + 10 · 10	
Takeoff Runway Length Adjusted for Temp, Elevation & Gradient	L3=	5913	
Takeoff Runway Length @ 60 percent useful load (L3 X 80%) =		4,730	

Note: The takeoff runway length calculated here is based on the airplane takeoff distance.
If the accelerate-stop distance is greater than the takeoff distance, the runway length should be designed for the accelerate-stop distance. Consult the aircraft flight manual

TAKEOFF RUNWAY LENGTH ADJUSTMENT (Given takeoff distance at sea level, mean max temperature, elevation & difference in Hi / Lo pts)

Altitude Correction E = Elevation (7% per 1,000' above sea level) L = Takeoff distance @ sea level . L1 = Takeoff runway length corrected for altitude Temperature Correction (0.5% per degree above stnd temp in hottest month) (Stnd Temp adjusted to Sea Level) T1 = Adjusted Stnd Temp T = Mean Max High Temperature L2 = Takeoff RW length corrected for altitude & temperature T1 = 59 - (3.566 * E7 1000) L2 = (005*(T - T1)) * L1 + L1 Effective Gradient Correction (10) for each 1' difference between G = Difference between Hill Lo point in feet Hi/Lo Pts.) L3 = RW length corrected for allititude, temperature & gradient

L3 = G * 10 + L2

Aircraft - Learjet 60

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L3 =	Phonocol Pictor	6176
	s 2 Sec.	4,940
	T = T1= L2=	

Note: The takeoff runway length calculated here is based on the airplane takeoff distance.
If the accelerate-stop distance is greater than the takeoff distance, the runway length should be designed for the accelerate-stop distance. Consult the aircraft flight manual.

TAKEOFF RUNWAY LENGTH ADJUSTMENT (Given takeoff distance at sea level, mean max temperature, elevation & difference in Hi / Lo pts)

Altitude Correction

E = Elevation

(7% per 1,000' above sea level)

L = Takeoff distance @ sea level

L1 = Takeoff runway length corrected for altitude

L1=(.07,*E/1000);L+L

Temperature Correction.

(0.5% per degree above stnd temp in hottest month)

(Stnd Temp adjusted to Sea Level)

T1 = Adjusted Stnd Temp

T = Mean Max High Temperature

L2 = Takeoff RW length corrected for altitude & temperature

T1 = 59 - (3.566 * E / 1000) L2 = (.005*(T - T1)) * L1 + L1

Effective Gradient Correction

(10" for each 1" difference between

G = Difference between Hi / Lo point in feet

Hi/Lo Pts.)

L3 = RW length corrected for alltitude, temperature & gradient

L3 = G * 10 + L2

Aircraft -

Gulfstream IV

Takeoff Runway Length at Sea Level and 59 Degrees Fahrenheit			San Granda de la composición de la comp
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	# E1≅	To the second	5451
Temperature 3. Enter Mean Max Daily Temp in degrees F	"TE	SHOWNER	11189
	, T1=	5 (3. s.	14658/99 (1451)
	L2=		6269
Gradient Adjustment			Property of the Control of the Contr
4. Enter Maximum Difference in RW Elevation in feet	gantang desk	127	**************************************
A constraint of the state of th			
Takeoff Runway Length Adjusted for Temp, Elevation & Gradient	L3 =	is verkere n	6269
Takeoff Runway Length @ 60 percent useful load (L3 X 80%) =		ing and section in the section is	5,015
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Note: The takeoff runway length calculated here is based on the airplane takeoff distance. If the accelerate-stop distance is greater than the takeoff distance, the runway length should be designed for the accelerate-stop distance. Consult the aircraft flight manual.

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0	87.9/	87.8	52045/137	52045/137			60000.	
2	88.2/	88.1	51874/137	51874/137			60000.	
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18	90.7/		50506/135	50506/135			60000.	
20	91.1/	90.8	50420/135	50420/135			60000.	
22	91.4/	90.8	50279/134	50279/134			60000.	
24	91.4/	90.7	49921/134	49921/134			59794.	
26	91.2/	90.5	49380/133	49380/133			58990.	
28	91.0/	90.3	48893/133	48893/133			58152.	
30	90.8/		48414/132	48414/132			57315.	
				191117, 200			37313.	
32	90.6/	89.9	47864/131	47864/131			56433.	
	90.3/		47315/131	47315/131				
	90.1/		46745/130	46745/130			55551.	
							54669.	
	89.7/		46170/129	46170/129			53788.	
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ELEVATION 3

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2	86.3/ 85.8	72750/126	72750/126	75000.
4	86.6/ 86.1	72750/126	72750/126	75000.
6	86.9/ 86.4	72750/126	72750/126	75000.
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12	87.8/ 87.3	72750/126	72750/126	75000.
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16	88.4/ 87.8		72750/126	75000.
18	88.7/ 88.1		72750/126	75000.
20	89.0/ 88.4	72750/126	72750/126	75000.
20	00 1/00 7	70750/106	707F0 /106	FF 0.00
22	89.3/88.7	72750/126	72750/126	75000.
24	89.6/ 89.0	72750/126	72750/126	75000.
26	89.8/89.3	72750/126	72750/126	75000.
28	90.1/ 89.6	72750/126	72750/126	75000.
30	90.4/ 89.9	72750/126	72750/126	75000.
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32	90.1/89.5	72260/126	72260/126	75000.
34	89.8/ 89.2	71309/126	71309/126	75000.
36	89.3/ 88.7	70302/125	70302/125	75000.
38	88.8/ 88.2	69245/124	69092/124	74639.
40	88.3/ 87.7	68180/123	67738/123	73007.
4.5	06.04.06.0	CEOED (404	C110 C100	
45	86.9/ 86.2	65253/121	64416/120	68819.
49	85.7/ 85.0	62974/120	61927/120	65424.
HW	+T DC /VM	161	63	
	+LBS/KT	161	62	
TW	-LBS/KT	629	629	
APU	OFF+LBS	0	160	510
BLD	OPN-LBS	870	1180	1500
	ON-LBS	0	0	0
	L AI-LBS	0	390	0
ACCEL	HT (MSL)	800	800	

*** OBSERVE STRUCTURAL LIMITS ***